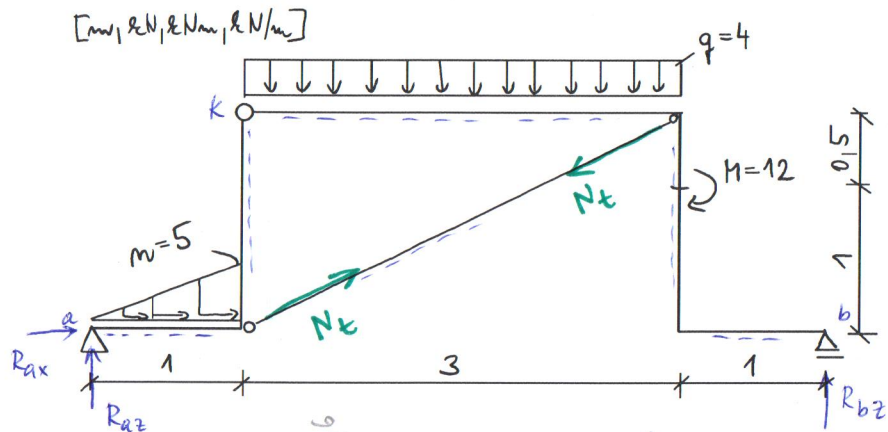
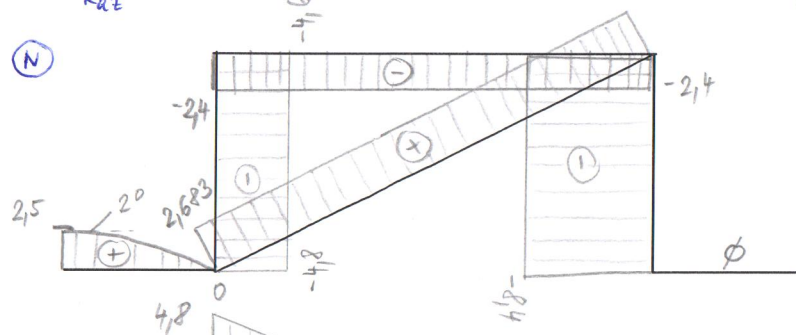
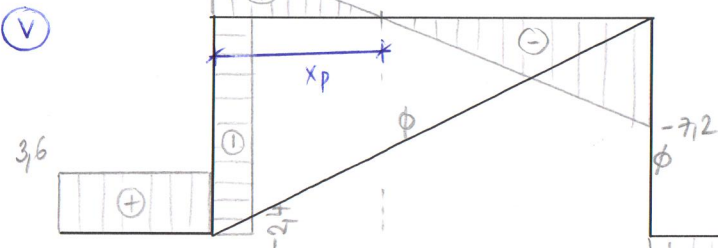




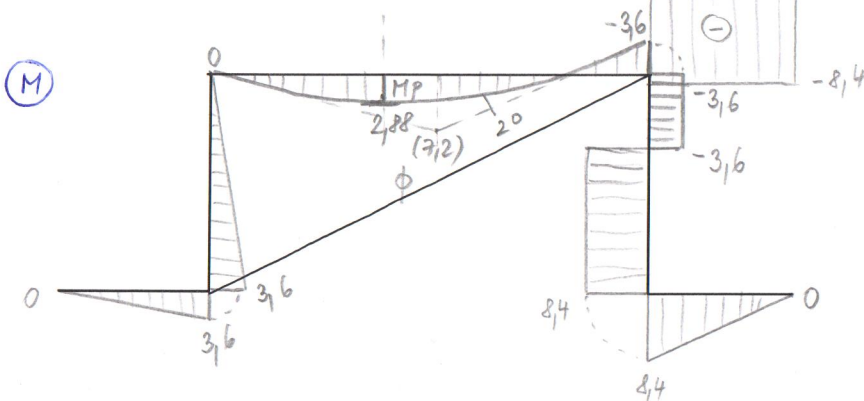
(N)



(V)



(M)



$$x_p = \frac{4.8}{4} = 1.2 \text{ m}$$

$$M_p = 0 + \frac{1}{2} \cdot 4.8 \cdot 1.2 = 2.88 \text{ kNm}$$

$$\oplus \sum M_{ia} = 0: -q \cdot 3 \cdot 2.5 - M + R_{bz} \cdot 5 = 0$$

$$R_{bz} = \frac{4 \cdot 3 \cdot 2.5 + 12}{5} = 8.4 \text{ kN} \quad (\uparrow)$$

$$\oplus \sum F_{ix} = 0: R_{ax} + \frac{1}{2} \cdot m \cdot 1 = 0$$

$$R_{ax} = -\frac{1}{2} \cdot 5 \cdot 1 = -2.5 \text{ kN} \quad (\leftarrow)$$

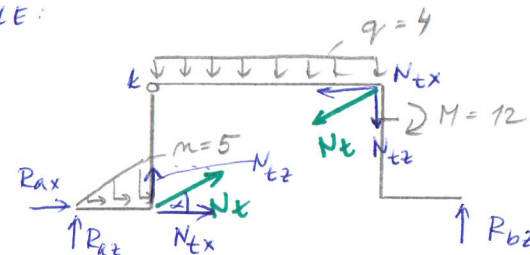
$$\oplus \sum M_{ib} = 0: q \cdot 3 \cdot 2.5 - M - R_{az} \cdot 5 = 0$$

$$R_{az} = \frac{4 \cdot 3 \cdot 2.5 - 12}{5} = 3.6 \text{ kN} \quad (\uparrow)$$

$$KO: \sum F_{iz} = 0: R_{az} + R_{bz} - q \cdot 3 = 0$$

$$3.6 + 8.4 - 4 \cdot 3 = 0 \quad \checkmark$$

SILA V TAHLE:



$$\oplus \sum M_{ik}^L = 0: N_{tx} \cdot 1.5 + \frac{1}{2} \cdot m \cdot 1 \cdot 1.5 + R_{ax} \cdot 1.5 - R_{az} \cdot 1 = 0$$

$$N_{tx} = \frac{-\frac{1}{2} \cdot 5 \cdot 1 \cdot 1.5 - (-2.5) \cdot 1.5 + 3.6 \cdot 1}{1.5}$$

$$N_{tx} = 2.4 \text{ kN}$$

$$\oplus \sum M_{ik}^P = 0: R_{bz} \cdot 4 - M - q \cdot 3 \cdot 1.5 - N_{tz} \cdot 3 = 0$$

$$N_{tz} = \frac{8.4 \cdot 4 - 12 - 4 \cdot 3 \cdot 1.5}{3}$$

$$N_{tz} = 1.2 \text{ kN}$$

$$N_t = \sqrt{1.2^2 + 2.4^2} = \sqrt{7.2} = 2.683 \text{ kN}$$

$$KO: N_t = \frac{N_{tx}}{\cos \alpha} = \frac{2.4}{(3/\sqrt{3^2 + 1.5^2})} = 2.683 \text{ kN}$$